

0590
06/8

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/955,259A
Source: CIPE
Date Processed by STIC: 7-3-02

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/efb/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

Raw Sequence Listing Error Summary .

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 09/955,259A

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.

- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000

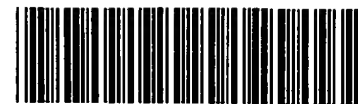
- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

- 10 ✓ Invalid <213>
 Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence

- 11 ✓ Use of <220> Sequence(s) 3 missing the <220> "Feature" and associated numeric identifiers and responses.
 Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown."
 (Please explain source of genetic material in <220> to <223> section)
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

Does Not Comply
Corrected Diskette Needed



OIPE

RAW SEQUENCE LISTING

DATE: 07/03/2002

PATENT APPLICATION: US/09/955,259A

TIME: 14:15:48

Input Set : A:\52071-4.ST25.txt

Output Set: N:\CRF3\07032002\I955259A.raw

3 <110> APPLICANT: Annibali, Nestor
 5 <120> TITLE OF INVENTION: Expression of a Human Insulin Precursor In P. Pastoris
 7 <130> FILE REFERENCE: 52071.4
 9 <140> CURRENT APPLICATION NUMBER: US 09/955,259A
 10 <141> CURRENT FILING DATE: 2001-09-12
 12 <160> NUMBER OF SEQ ID NOS: 26
 14 <170> SOFTWARE: PatentIn version 3.1
 16 <210> SEQ ID NO: 1
 17 <211> LENGTH: 36
 18 <212> TYPE: DNA
 19 <213> ORGANISM: Artificial Sequence
 21 <220> FEATURE:
 22 <223> OTHER INFORMATION: Synthetic Primer
 24 <400> SEQUENCE: 1
 25 tcacacctgg tggaagctct ctacctagtg tgcggg 36
 28 <210> SEQ ID NO: 2
 29 <211> LENGTH: 45
 30 <212> TYPE: DNA
 31 <213> ORGANISM: Artificial Sequence
 33 <220> FEATURE:
 34 <223> OTHER INFORMATION: Synthetic Primer
 36 <400> SEQUENCE: 2
 37 ggtcttgggt gtgtagaaga agcctcggtc cccgcacact aggta 45
 40 <210> SEQ ID NO: 3
 41 <211> LENGTH: 39
 42 <212> TYPE: DNA
 43 <213> ORGANISM: Artificial Sequence
 45 <220> FEATURE:
 46 <223> OTHER INFORMATION: (gctggtacag cattgttcca caatgccacg cttggtcttg ggtgt) 39
 48 <400> SEQUENCE: 3
 49 tttgtgaacc aacacctgtg cggctcacac ctggtggaa
 52 <210> SEQ ID NO: 4
 53 <211> LENGTH: 45
 54 <212> TYPE: DNA
 55 <213> ORGANISM: Artificial Sequence
 57 <220> FEATURE:
 58 <223> OTHER INFORMATION: Synthetic Primer
 60 <400> SEQUENCE: 4
 61 gctggtacag cattgttcca caatgccacg cttggtcttg ggtgt 45
 64 <210> SEQ ID NO: 5
 65 <211> LENGTH: 52
 66 <212> TYPE: DNA
 67 <213> ORGANISM: Artificial Sequence

See item # 10 & 11
on ERROR
Summary
sheet

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Input Set : A:\52071-4.ST25.txt

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69 <220> FEATURE:
70 <223> OTHER INFORMATION: Synthetic Primer
72 <400> SEQUENCE: 5
73 ctagttgcag tagttctcca gctggtagag ggagcagatg ctggtacagc at          52
76 <210> SEQ ID NO: 6
77 <211> LENGTH: 162
78 <212> TYPE: DNA
79 <213> ORGANISM: Artificial Sequence
81 <220> FEATURE:
82 <223> OTHER INFORMATION: complete synthetic insulin precursor obtained by PCR using
human
83     insulin sequence as original source
85 <400> SEQUENCE: 6
86 tttgtgaacc aacacctgtg cggtcacac ctggtggaag ctctctacct agtgtgcggg          60
88 gaacgaggct tcttctacac acccaagacc aagcgtggca ttgtggaaca atgctgtacc          120
90 agcatctgct cctctacca gctggagaac tactgcaact ag          162
93 <210> SEQ ID NO: 7
94 <211> LENGTH: 50
95 <212> TYPE: DNA
96 <213> ORGANISM: Artificial Sequence
98 <220> FEATURE:
99 <223> OTHER INFORMATION: Synthetic Primer
101 <400> SEQUENCE: 7
102 acttggttga agctttgtac ttggtttgtg gtgaaagagg tttcttctac          50
105 <210> SEQ ID NO: 8
106 <211> LENGTH: 50
107 <212> TYPE: DNA
108 <213> ORGANISM: Artificial Sequence
110 <220> FEATURE:
111 <223> OTHER INFORMATION: Synthetic Primer
113 <400> SEQUENCE: 8
114 agaagtacaa cattgttcaa cgatacctct cttagtcttt ggagtgtaga          50
117 <210> SEQ ID NO: 9
118 <211> LENGTH: 33
119 <212> TYPE: DNA
120 <213> ORGANISM: Artificial Sequence
122 <220> FEATURE:
123 <223> OTHER INFORMATION: Synthetic Primer
125 <400> SEQUENCE: 9
126 acacttggtg ggttctcact tggttgaagc ttt          33
129 <210> SEQ ID NO: 10
130 <211> LENGTH: 66
131 <212> TYPE: DNA
132 <213> ORGANISM: Artificial Sequence
134 <220> FEATURE:
135 <223> OTHER INFORMATION: Synthetic Primer
137 <400> SEQUENCE: 10
138 ttactcgagt tagttacagt agttttccaa ttggtacaaa gaacagatag aagtacaaca          60
140 ttgttc          66
143 <210> SEQ ID NO: 11

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144 <211> LENGTH: 36
145 <212> TYPE: DNA
146 <213> ORGANISM: Artificial Sequence
148 <220> FEATURE:
149 <223> OTHER INFORMATION: Synthetic Primer
151 <400> SEQUENCE: 11
152 ccgctcgaga agagatttgt taaccaacac ttgtgt          36
155 <210> SEQ ID NO: 12
156 <211> LENGTH: 162
157 <212> TYPE: DNA
158 <213> ORGANISM: Artificial Sequence
160 <220> FEATURE:
161 <223> OTHER INFORMATION: synthetic insulin precursor, obtained by PCR using human
insulin
162     sequence as original source
164 <400> SEQUENCE: 12
165 tttgttaacc aacacttggt tggttctcac ttggttgaag ctttgtactt ggtttgtggt          60
167 gaaagagggt tcttctacac tccaaagact aagagaggta tcgttgaaca atgttgtact          120
169 tctatctggt ctttgtacca attggaaaac tactgttaact aa          162
172 <210> SEQ ID NO: 13
173 <211> LENGTH: 56
174 <212> TYPE: DNA
175 <213> ORGANISM: Artificial Sequence
177 <220> FEATURE:
178 <223> OTHER INFORMATION: Synthetic Primer
180 <400> SEQUENCE: 13
181 cgcggatcca aaccatgaga ttcccatcta tcttcactgc tgttttgttc gctgct          56
184 <210> SEQ ID NO: 14
185 <211> LENGTH: 68
186 <212> TYPE: DNA
187 <213> ORGANISM: Artificial Sequence
189 <220> FEATURE:
190 <223> OTHER INFORMATION: Synthetic Primer
192 <400> SEQUENCE: 14
193 gttttgttcg ctgcttcttc tgctttggct gctcctgtta acactactac tgaagacgaa          60
195 actgctca          68
198 <210> SEQ ID NO: 15
199 <211> LENGTH: 71
200 <212> TYPE: DNA
201 <213> ORGANISM: Artificial Sequence
203 <220> FEATURE:
204 <223> OTHER INFORMATION: Synthetic Primer
206 <400> SEQUENCE: 15
207 acgtcgaagt caccttccaa gtcagagtaa ccgataaccg cttcagctgg gatttgagca          60
209 gtttcgtctt c          71
212 <210> SEQ ID NO: 16
213 <211> LENGTH: 66
214 <212> TYPE: DNA
215 <213> ORGANISM: Artificial Sequence
217 <220> FEATURE:

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218 <223> OTHER INFORMATION: Synthetic Primer
 220 <400> SEQUENCE: 16
 221 gatgaacaac aaaccattat tagtagagtt agagaaaggc aaaacagcaa cgtcgaagtc 60
 223 accttc 66
 226 <210> SEQ ID NO: 17
 227 <211> LENGTH: 72
 228 <212> TYPE: DNA
 229 <213> ORGANISM: Artificial Sequence
 231 <220> FEATURE:
 232 <223> OTHER INFORMATION: Synthetic Primer
 234 <400> SEQUENCE: 17
 235 ccgctcgaga gaaacaccct cttccttagc agcgatagaa gcgatagtag tgttgatgaa 60
 237 caacaaacca tt 72
 240 <210> SEQ ID NO: 18
 241 <211> LENGTH: 267
 242 <212> TYPE: DNA
 243 <213> ORGANISM: Artificial Sequence
 245 <220> FEATURE:
 246 <223> OTHER INFORMATION: synthetic sequence of alpha factor from *S. cerevisiae*,
 obtained b
 247 y PCR
 249 <400> SEQUENCE: 18
 250 atgagattcc catctatctt cactgctggt ttgttcgctg cttcttctgc tttggtctgt 60
 252 cctgttaaca ctactactga agacgaaact gctcaaatcc cagctgaagc ggttatcggt 120
 254 tactctgact tggaagggtga cttcgacggt gctgttttgc ctttctctaa ctctactaat 180
 256 aatggtttgt tgttcatcaa cactactatc gcttctatcg ctgctaagga agaggggtgt 240
 258 tctctcgaga agagagaggc tgaagca 267
 261 <210> SEQ ID NO: 19
 262 <211> LENGTH: 44
 263 <212> TYPE: DNA
 264 <213> ORGANISM: Artificial Sequence
 266 <220> FEATURE:
 267 <223> OTHER INFORMATION: Synthetic Primer
 269 <400> SEQUENCE: 19
 270 ggggatccat atgctcgaga aaagatttgt gaaccaacac ctgt 44
 273 <210> SEQ ID NO: 20
 274 <211> LENGTH: 32
 275 <212> TYPE: DNA
 276 <213> ORGANISM: Artificial Sequence
 278 <220> FEATURE:
 279 <223> OTHER INFORMATION: Synthetic Primer
 281 <400> SEQUENCE: 20
 282 ttagaattcc cgggtctagt tgcagtagtt ct 32
 285 <210> SEQ ID NO: 21
 286 <211> LENGTH: 30
 287 <212> TYPE: DNA
 288 <213> ORGANISM: Artificial Sequence
 290 <220> FEATURE:
 291 <223> OTHER INFORMATION: Synthetic Primer
 293 <400> SEQUENCE: 21

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294 tcactcgagc ggtctagttg cagtagttct 30
297 <210> SEQ ID NO: 22
298 <211> LENGTH: 28
299 <212> TYPE: DNA
300 <213> ORGANISM: Artificial Sequence
302 <220> FEATURE:
303 <223> OTHER INFORMATION: Synthetic Primer
305 <400> SEQUENCE: 22
306 gtcgtgggttt ctcatagtag agtggaca 28
309 <210> SEQ ID NO: 23
310 <211> LENGTH: 18
311 <212> TYPE: DNA
312 <213> ORGANISM: Artificial Sequence
314 <220> FEATURE:
315 <223> OTHER INFORMATION: Synthetic Primer
317 <400> SEQUENCE: 23
318 ggtcatcact gtcctatc 18
321 <210> SEQ ID NO: 24
322 <211> LENGTH: 19
323 <212> TYPE: DNA
324 <213> ORGANISM: Artificial Sequence
326 <220> FEATURE:
327 <223> OTHER INFORMATION: Synthetic Primer
329 <400> SEQUENCE: 24
330 agcagcacca gtggaagat 19
333 <210> SEQ ID NO: 25
334 <211> LENGTH: 21
335 <212> TYPE: DNA
336 <213> ORGANISM: Artificial Sequence
338 <220> FEATURE:
339 <223> OTHER INFORMATION: Synthetic Primer
341 <400> SEQUENCE: 25
342 gactggttcc aattgacaag c 21
345 <210> SEQ ID NO: 26
346 <211> LENGTH: 4
347 <212> TYPE: PRT
348 <213> ORGANISM: Saccharomyces cerevisiae
350 <400> SEQUENCE: 26
352 Lys Arg Glu Ala
353 1

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